

Spotted Lanternfly Plant Usage in North America

Note: This list has been shortened and simplified for general use and knowledge from Barringer and Ciafré (2020). It details all of the plants in North America associated with spotted lanternfly feeding or egg deposition from lab studies, field studies, field observations, and literature review. It is listed in alphabetical order for common name and not in order of top or favorite hosts. Please see the full scientific article for the complete host plant list which includes worldwide plant usage and all of the respective citations. Additionally, this list is not necessarily exhaustive of all spotted lanternfly host plants in North America. Plants and life stage present will likely continue to be added and removed from this list as studies are conducted. This list is designed to help identify potential host trees for spotted lanternflies but does not guarantee or refute an infestation.

Citation: Barringer, L., & Ciafré, C. (2020). Worldwide Feeding Host Plants of Spotted Lanternfly, With Significant Additions From North America. *Environmental Entomology*. doi:10.1093/ee/nvaa09s3

Table 1. Plant usage list adapted from Barringer and Ciafré (2020). See note and citation above.

Common Name	Species	Family	Life Stage Present
American basswood	<i>Tilia americana</i> L.	Tiliaceae	Nymphs & Adults
American beech	<i>Fagus grandifolia</i> Ehrh.	Fagaceae	Eggs & Nymphs
American hazelnut	<i>Corylus americana</i> Walter	Betulaceae	Adults
American hophornbeam	<i>Ostrya virginiana</i> K. Koch	Betulaceae	Eggs
American hornbeam	<i>Carpinus caroliniana</i> Walter	Betulaceae	Eggs
American sycamore	<i>Platanus occidentalis</i> L.	Platanaceae	Eggs & Adults
Amur corktree	<i>Phellodendron amurense</i> Rupr.	Rutaceae	Nymphs & Adults
Amur maackia	<i>Maackia amurensis</i> Rupr. & Maxim.	Fabaceae	Nymphs
Apple	<i>Malus</i> sp. Mill.	Rosaceae	Adults
Arborvitae	<i>Thuja occidentalis</i> L.	Cupressaceae	Nymphs
Ash	<i>Fraxinus</i> sp. L.	Oleaceae	Eggs & Adults
Basil	<i>Ocimum basilicum</i> L.	Lamiaceae	Nymphs

Common Name	Species	Family	Life Stage Present
Bee balm	<i>Monarda sp.</i> L.	Lamiaceae	Nymphs
Bee-bee tree	<i>Tetradium daniellii</i> (Benn.)	Rutaceae	Adults
Bigtooth aspen	<i>Populus grandidentata</i> Michx.	Salicaceae	Nymphs & Adults
Black cherry	<i>Prunus serotina</i> Lindl.	Rosaceae	Eggs, Nymphs, & Adults
Black locust	<i>Robinia pseudoacacia</i> L.	Fabaceae	Nymphs
Black walnut	<i>Juglans nigra</i> L.	Juglandaceae	Nymphs & Adults
Blackberries and raspberries	<i>Rubus sp.</i> L.	Rosaceae	Nymphs
Blackgum	<i>Nyssa sylvatica</i> Marshall	Cornaceae	Nymphs & Adults
Blackhaw	<i>Viburnum prunifolium</i> L.	Adoxaceae	Eggs
Boxelder/ Boxelder maple	<i>Acer negundo</i> L.	Sapindaceae	Eggs & Nymphs
Butternut	<i>Juglans cinerea</i> L.	Juglandaceae	Nymphs & Adults
Canadian serviceberry	<i>Amelanchier canadensis</i> (L.) Medik.	Rosaceae	N/A
Chestnut oak	<i>Quercus montana</i> Willd.	Fagaceae	Eggs, Nymphs, & Adults
Chinaberry tree	<i>Melia azedarach</i> L.	Meliaceae	Nymphs & Adults
Chinese pepper	<i>Zanthoxylum simulansi</i> Hance	Rutaceae	Nymphs
Corkscrew willow	<i>Salix matsudana</i> Koidz.	Salicaceae	Nymphs & Adults
Dogwoods	<i>Cornus sp.</i> L.	Cornaceae	Nymphs & Adults
Eastern white pine	<i>Pinus strobus</i> L.	Pinaceae	Eggs
European white birch	<i>Betula pendula</i> Roth	Betulaceae	Nymphs
Flowering dogwood	<i>Cornus florida</i> L.	Cornaceae	Eggs
Forsythia	<i>Forsythia sp.</i> Vahl	Oleaceae	Nymphs
Greater burdock	<i>Arctium lappa</i> L.	Asteraceae	Nymphs

Common Name	Species	Family	Life Stage Present
Hibiscus	<i>Hibiscus sp.</i> L.	Malvaceae	Nymphs
Honeysuckle	<i>Lonicera sp.</i> L.	Caprifoliaceae	Nymphs
Hops/Common Hop	<i>Humulus lupulus</i> L.	Cannabaceae	Nymphs & Adults
Hops/Japanese Hops	<i>Humulus japonicus</i> Siebold & Zucc.	Cannabaceae	Nymphs
Horseradish	<i>Armoracia rusticana</i> G. Gaertn, B.Mey. & Scherb.	Brassicaceae	Nymphs & Adults
Japanese maple	<i>Acer palmatum</i> Thunb.	Sapindaceae	Nymphs & Adults
Japanese snowbell	<i>Styrax japonicus</i> Siebold & Zucc.	Stryaceaceae	Nymphs & Adults
Lowbush blueberry	<i>Vaccinium angustifolium</i> Aiton	Ericaceae	Nymphs
Northern red oak	<i>Quercus rubra</i> L.	Fagaceae	Eggs & Nymphs
Northern spicebush	<i>Lindera benzoin</i> L.	Lauraceae	Eggs
Norway maple	<i>Acer platanoides</i> L.	Sapindaceae	Eggs, Nymphs, & Adults
Oriental bittersweet	<i>Celastrus orbiculatus</i> Thunb.	Celastraceae	Nymphs & Adults
Paper birch	<i>Betula papyrifera</i> Marshall	Betulaceae	Nymphs & Adults
Peach/nectarine	<i>Prunus persica</i> (L.) Batsch	Rosaceae	Adults
Perennial salvia	<i>Salvia sp.</i> L. (annual excluded)	Lamiaceae	Nymphs
Pignut hickory	<i>Carya glabra</i> (Mill.) Sweet	Juglandaceae	Nymphs & Adults
Poinsettia	<i>Euphorbia pulcherrima</i> Willd. ex Klotzsch	Euphorbiaceae	Adults
Poison ivy	<i>Toxicodendron radicans</i> (L.) Kuntze	Anacardiaceae	Nymphs
Red maple	<i>Acer rubrum</i> L.	Sapindaceae	Eggs, Nymphs, & Adults
River birch	<i>Betula nigra</i> L.	Betulaceae	Eggs
Riverbank grape	<i>Vitis riparia</i> Michx.	Vitaceae	Adults
Rose	<i>Rosa sp.</i> L.	Rosaceae	Nymphs & Adults

Common Name	Species	Family	Life Stage Present
Sassafras	<i>Sassafras albidum</i> (Nutt.) Nees	Lauraceae	Eggs, Nymphs, & Adults
Serviceberry	<i>Amelanchier sp.</i> Medik	Rosaceae	Nymphs
Shagbark hickory	<i>Carya ovata</i> (Mill.) K. Koch	Juglandaceae	Eggs, Nymphs, & Adults
Silver maple	<i>Acer saccharinum</i> L.	Sapindaceae	Eggs, Nymphs, & Adults
Slippery elm	<i>Ulmus rubra</i> Muhl.	Ulmaceae	Nymphs & Adults
Sponge gourd	<i>Luffa sp.</i> Mill.	Cucurbitaceae	Nymphs
Staghorn sumac	<i>Rhus typhina</i> L.	Anacardiaceae	Nymphs & Adults
Sugar maple	<i>Acer saccharum</i> Marshall	Sapindaceae	Nymphs & Adults
Sweet birch	<i>Betula lenta</i> L.	Betulaceae	Eggs, Nymphs, & Adults
Sweet cherry	<i>Prunus avium</i> (L.) L.	Rosaceae	Eggs
Sycamore maple	<i>Acer pseudoplatanus</i> L.	Sapindaceae	Nymphs
Tetradium	<i>Tetradium sp.</i> Lour.	Rutaceae	Adults
Tree of Heaven	<i>Ailanthus altissima</i> (Mill.) Swingle	Simaroubaceae	Eggs, Nymphs, & Adults
Tuliptree/Tulip poplar	<i>Liriodendron tulipifera</i> L.	Magnoliaceae	Eggs, Nymphs, & Adults
Virginia creeper	<i>Parthenocissus quinquefolia</i> (L.) Planch.	Vitaceae	Nymphs
Weeping willow	<i>Salix babylonica</i> L.	Salicaceae	Nymphs & Adults
White ash	<i>Fraxinus americana</i> L.	Oleaceae	Eggs, Nymphs, & Adults
Wild grape	<i>Vitis sp.</i> L.	Vitaceae	Nymphs & Adults
Willow	<i>Salix sp.</i> L.	Salicaceae	Eggs, Nymphs, & Adults
Willow/Japanese Fantail Willow	<i>Salix udensis</i> Trautv. & C.A. Mey.	Salicaceae	Nymphs & Adults
Wine grape	<i>Vitis vinifera</i> L.	Vitaceae	Nymphs & Adults
Yellow birch	<i>Betula alleghaniensis</i> Britt.	Betulaceae	Eggs